

ABSTRACT

- Personal multimedia devices can detect when an incoming video format is different from a native format and make a local decision to convert incoming video formats to a format native to the personal multimedia device. The personal
- 5 multimedia device may include a media processor that comprises an MPEG decoder/encoder, graphics processors, and a video decoder/encoder. These components increase a frame rate of a received video signal when the frame rate of the received video signal is less than a frame rate of the native video format of the personal multimedia device and decrease the frame rate of the received video signal
- 10 when the frame rate of the received video signal is greater than the native frame rate of the set-top box. The graphics processor scales a frame resolution of the frames in the received video signal to correspond to the native video format.